

# Luke Zhuang

[lukewzhuang@gmail.com](mailto:lukewzhuang@gmail.com) | 415.837.8686 | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## EDUCATION

California Polytechnic State University, San Luis Obispo  
*Bachelor of Science Degree in Computer Science*

March 2025

## EXPERIENCE

### Software Engineer, Renov8ai

February 2026 – Present

- Develop and deliver full-stack features from prototype to production.
- Migrated image generation from OpenAI DALL·E to Google Gemini, optimizing performance and implementing prompt guardrails to improve output quality and consistency.
- Implemented image attachment handling and page navigation in the internal AI assistant.
- Debug and resolve production issues to improve performance and user experience.
- Collaborate with stakeholders to translate requirements into production-ready solutions.

### Autonomous Vehicle Software Operator, Zoox

June 2025 – February 2026

- Support the development of new autonomous vehicle software systems by collecting and analyzing real world operational data.
- Perform comprehensive tests on diverse routes and missions to ensure the safety, reliability, and performance of autonomous vehicle systems.
- Monitor vehicle performance, diagnose issues promptly, and communicate detailed findings to the dispatch and engineering teams.

### Software Engineer, California Polytechnic State University

January 2025 – April 2025

- Leveraged AI and data analytics to predict likely locations of missing persons.
- Analyzed critical factors including elapsed time, travel distance, weather conditions, terrain, and age to improve prediction accuracy.
- Enhanced search operations by improving response time and increasing rescue success rates.

## TECHNICAL PROJECTS

### Showroom Booking App

January 2026 – February 2026

- Built a full-stack appointment scheduling platform using Next.js, TypeScript, Prisma, and PostgreSQL
- Implemented real-time availability logic to prevent double bookings and ensure accurate time slot management.
- Integrated Clerk for secure user authentication and account management, enabling protected routes.
- Designed a secure admin dashboard with role-based access control for managing appointments and user permissions.

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript, Python, Java, C, C++

**Frameworks & Backend Technologies:** React.js, Next.js, Node.js, Express.js, Prisma ORM, Axios

**Databases & Infrastructure:** PostgreSQL, MongoDB, AWS, Azure, Docker, GitHub, Render, Linux